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Part Number:

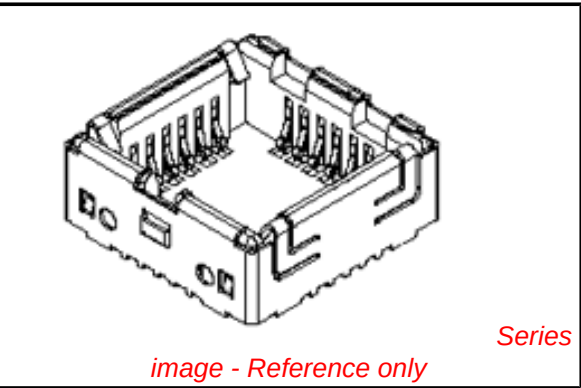
0473370001

Status:

Active

Description:

Camera Socket for Mobile Phone, Top Mount, SMT, Side Contact Type, 8.5x8.5



Documents:

3D Model

Drawing (PDF)

Product Specification PS-47337-001 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	Other Sockets
Series	47337
Component Type	Socket
Product Name	Camera Socket
Physical	
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Black
Durability (mating cycles max)	30
Entry Angle	Vertical
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
PCB Locator	No
PCB Retention	N/A
PCB Thickness Recommended (in)	0.020 In
PCB Thickness Recommended (mm)	0.50 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.035 In
Pitch - Mating Interface (mm)	0.90 mm
Pitch - Term. Interface (in)	0.035 In
Pitch - Term. Interface (mm)	0.90 mm
Plating min: Mating (µin)	12
Plating min: Mating (µm)	0.3
Plating min: Termination (µin)	3
Plating min: Termination (µm)	0.075
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Surface Mount

Electrical	
Current - Maximum per Contact	0.5A
Voltage - Maximum	50V DC

Solder Process Data	
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	250

Material Info

Reference - Drawing Numbers	
Product Specification	PS-47337-001
Sales Drawing	SD-47337-001

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com

For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

47337Series

Mates With

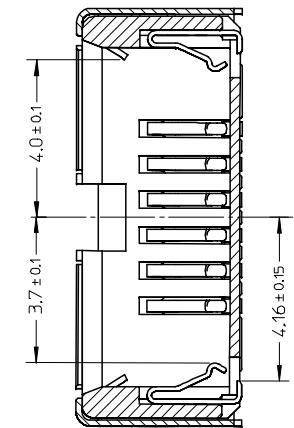
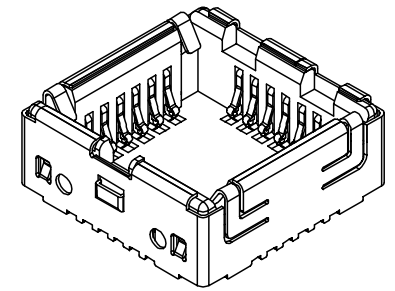
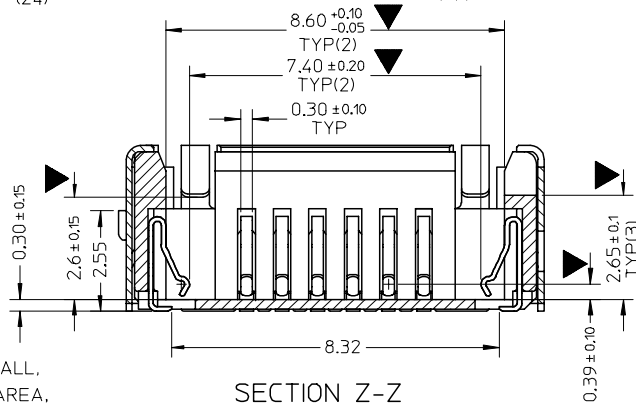
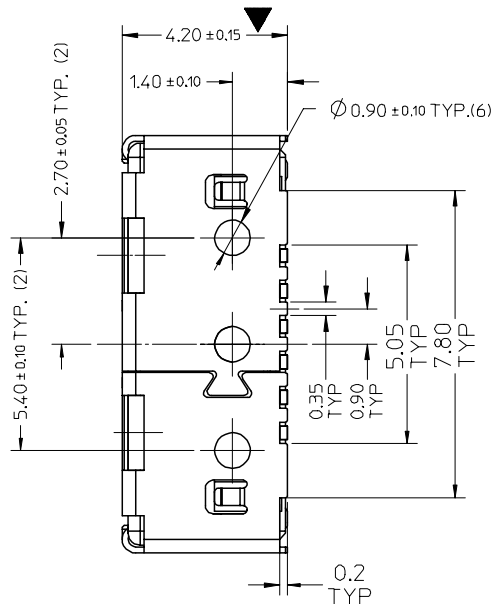
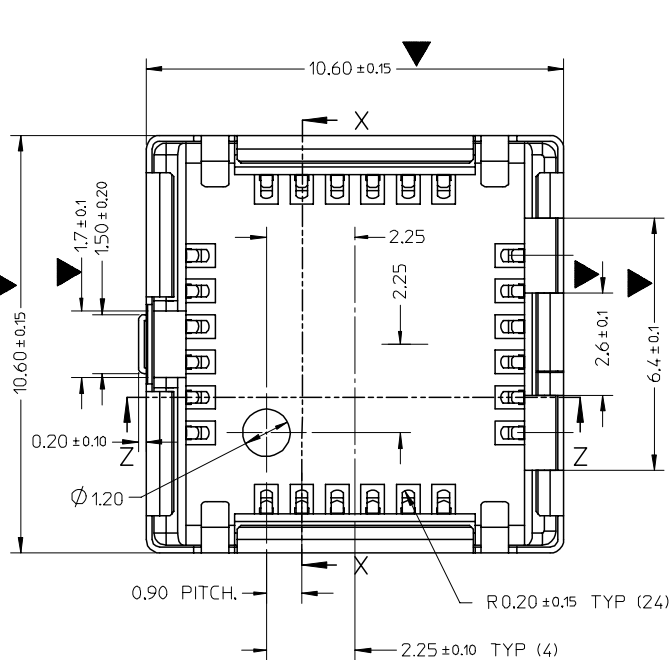
Camera Module

Use With

47337-0005 Cap

This document was generated on 03/31/2010

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SECTION X-X

NOTES:

1. MATERIALS

HOUSING: POLYAMIDE, BLACK, UL94 V-0
 TERMINAL: COPPER ALLOY.
 SHELL: COPPER ALLOY.
 TOP SHIELD: STAINLESS STEEL

2. FINISH

TERMINAL: 2-4 MICROMETER NICKEL UNDERPLATING OVERALL,
 GOLD PLATING 0.3 MICROMETER ON CONTACT AREA,
 GOLD FLASH PLATING ON SOLDER AREA.
 SHELL: 2-4 MICROMETER NICKEL UNDERPLATING OVERALL,
 GOLD PLATING ON SOLDER AREA.

3. PRODUCT SPECIFICATION: PS-47337-001

4. PAKAGING: TAPE&REEL

5. COPLANALITY TO BE 0.10MM MAX.

6. APPLICABLE TOP COVER 473370005.

7. APPLICABLE CAMERA MODULE SEE SHEET 3.

8. THE DRAWING EDITION 9 WILL MEET TOM LU'S DRAWING EDITION S6

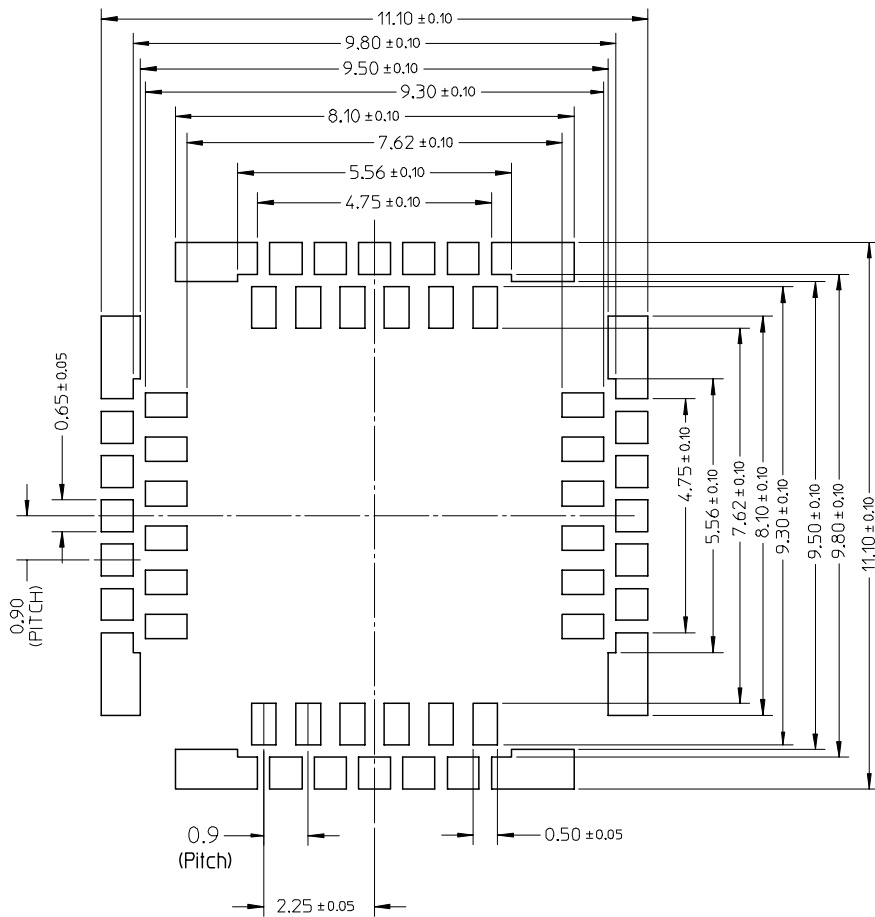
RELEASE	2006/06/16
EC NO:	2006/06/23
DRWN: IHE	2006/06/26
CHKD: XIXU	
APPR: INCHE	
REV	

QUALITY SYMBOLS	▽=12
	▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.15	± ---
ANGULAR ± 1 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
IVAN HE	2006/06/16
CHECKED BY	DATE
XIXU	2006/06/16
APPROVED BY	DATE
JENNY CHEN	2006/06/16
MATERIAL NO.	
473370001	

SCALE 8:1		DESIGN UNITS METRIC		 THIRD ANGLE PROJECTION	
TITLE					
8.5*8.5 CAMERA SOCKET					
SMT.SIDE CONTACT TYPE					
TOP MOUNT					
 MOLEX INCORPORATED					
DOCUMENT NO. SD-47337-001				SHEET NO. 1 OF 3	
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



RECOMMENDED PCB LAYOUT

RELEASE EC NO: 2006/06/16 DRWN: IHE 2006/06/23 CHKD: XIXU 2006/06/26 APPR: JNCHEN 2006/06/26 A	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY IVAN HE	DATE 2006/06/16	TITLE 8.5*8.5 CAMERA SOCKET SMT.SIDE CONTACT TYPE TOP MOUNT					
			4 PLACES	± ---	± ---	CHECKED BY XIXU	DATE 2006/06/16						
			3 PLACES	± ---	± ---	APPROVED BY JENNY CHEN		DATE 2006/06/16	MOLEX MOLEX INCORPORATED				
			2 PLACES	± 0.10	± ---								
			1 PLACE	± 0.15	± ---								
ANGULAR ± 1			MATERIAL NO. 47337-0001		DOCUMENT NO. SD-47337-001		SHEET NO. 2 OF 3						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

APPLIED CAMERA MODULE

SECTION Y-Y

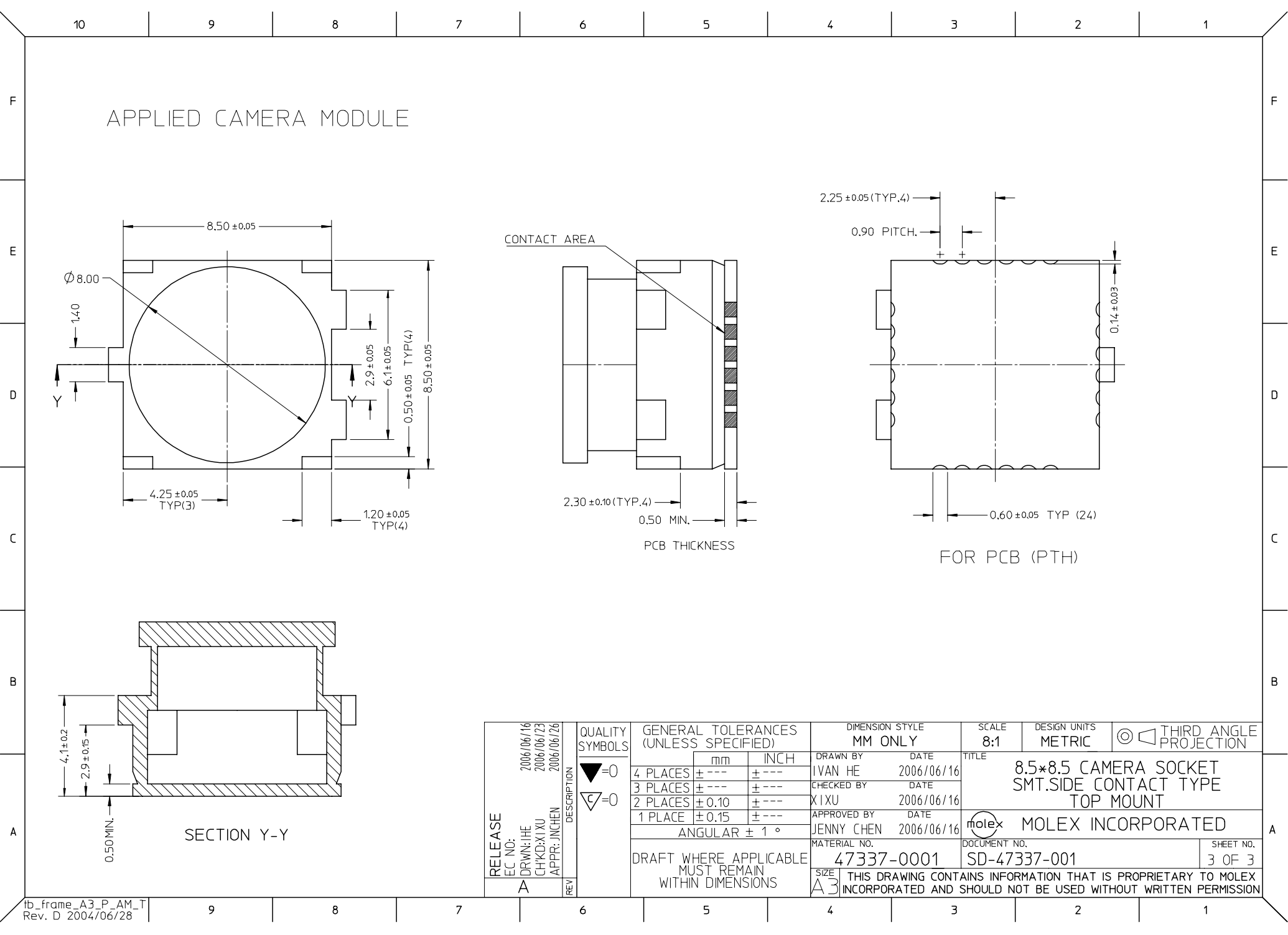
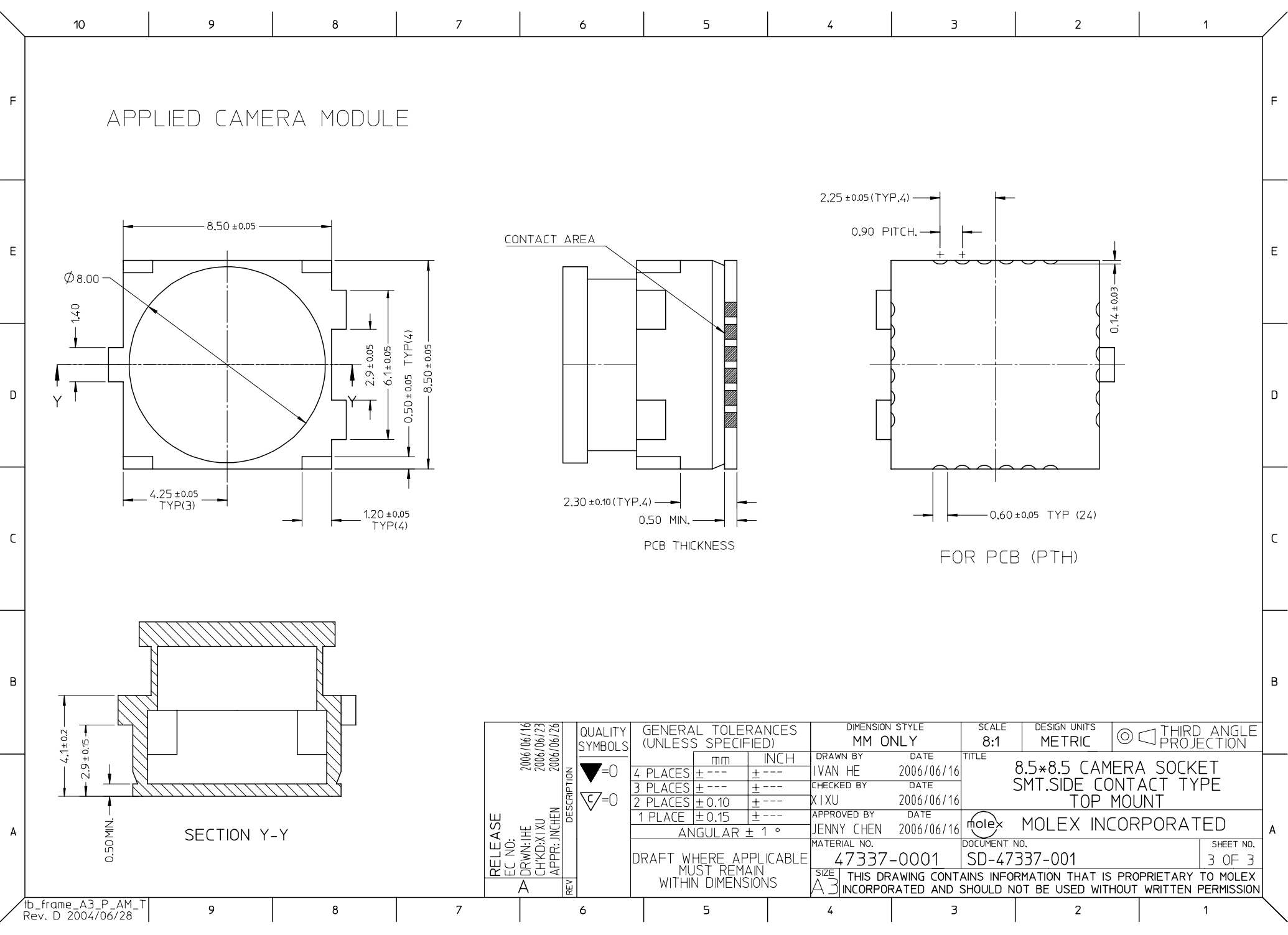
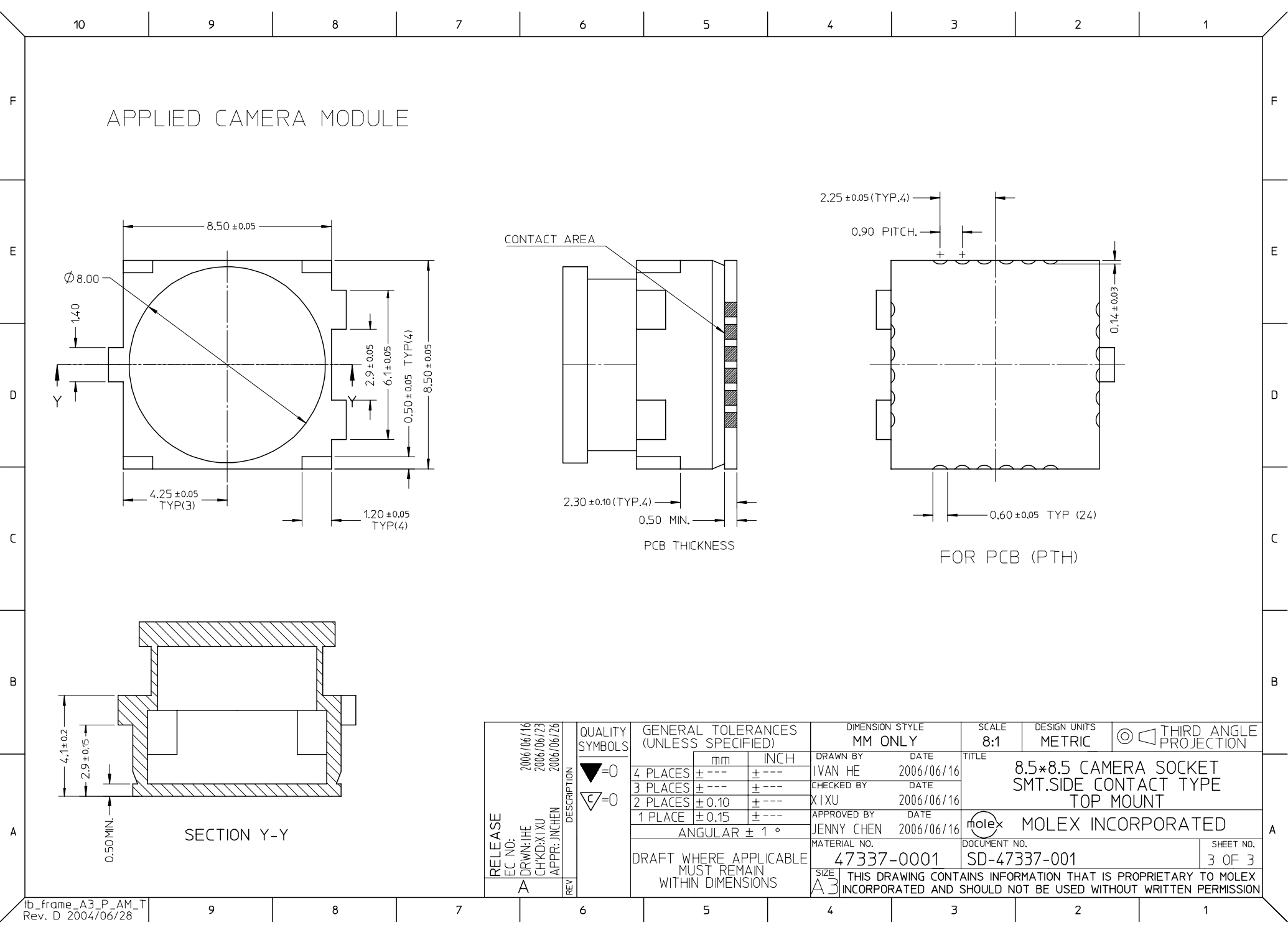
CONTACT AREA

PCB THICKNESS

FOR PCB (PTH)

RELEASE		EC NO.		REV		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
2006/06/16		2006/06/16		2006/06/16		2006/06/16		=0		=0		MM ONLY		8:1		METRIC		THIRD ANGLE PROJECTION	
DRAWN: IHE		CHKD: XIXU		APPR: JINCHEN		2006/06/16		4 PLACES ± --- ± ---		4 PLACES ± --- ± ---		DRAWN BY IVAN HE		DATE 2006/06/16		TITLE		8.5*8.5 CAMERA SOCKET	
2006/06/16		2006/06/16		2006/06/16		2006/06/16		3 PLACES ± --- ± ---		3 PLACES ± --- ± ---		CHECKED BY XIXU		DATE 2006/06/16		MOLEX INCORPORATED		SMT.SIDE CONTACT TYPE	
2006/06/16		2006/06/16		2006/06/16		2006/06/16		2 PLACES ± 0.10 ± ---		2 PLACES ± 0.10 ± ---		APPROVED BY JENNY CHEN		DATE 2006/06/16		MOLEX INCORPORATED		TOP MOUNT	
2006/06/16		2006/06/16		2006/06/16		2006/06/16		1 PLACE ± 0.15 ± ---		1 PLACE ± 0.15 ± ---		MATERIAL NO. 47337-0001		DOCUMENT NO. SD-47337-001		SHEET NO. 3 OF 3			
2006/06/16		2006/06/16		2006/06/16		2006/06/16		ANGULAR ± 1 °		ANGULAR ± 1 °		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

tb_frame_A3_P_AM_T Rev. D 2004/06/28



APPLIED CAMERA MODULE

The drawing includes the following views and dimensions:

- Top View:** Shows a square module with a central circular lens. Dimensions include a total width of 8.50 ± 0.05 , a lens diameter of $\phi 8.00$, and a mounting tab width of 1.20 ± 0.05 TYP(4).
- Side View:** Shows the profile of the module with a total height of 2.9 ± 0.05 and a mounting tab height of 0.50 ± 0.05 TYP(4).
- Section Y-Y:** A cross-sectional view showing the internal structure and a minimum thickness of 0.50 MIN.
- CONTACT AREA:** A detailed view of the contact area showing a width of 2.30 ± 0.10 (TYP.4) and a minimum thickness of 0.50 MIN.
- FOR PCB (PTH):** A detailed view of the PCB footprint showing a pitch of 0.90 and a width of 0.60 ± 0.05 TYP (24).

REV	DESCRIPTION	DATE	BY	CHKD	APPD
A	RELEASE	2006/06/16	IVAN HE	CHIKO XI XU	JENNY CHEN

QUALITY SYMBOLS	
$\nabla = 0$	$\nabla = 0$

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	MM
4 PLACES	± 0.10
3 PLACES	± 0.15
2 PLACES	± 0.20
1 PLACE	± 0.25

DIMENSION STYLE	
MM ONLY	INCH
4 PLACES	± 0.004
3 PLACES	± 0.005
2 PLACES	± 0.006
1 PLACE	± 0.008

DRAFT WHERE APPLICABLE	
MUST REMAIN WITHIN DIMENSIONS	
SIZE	A3

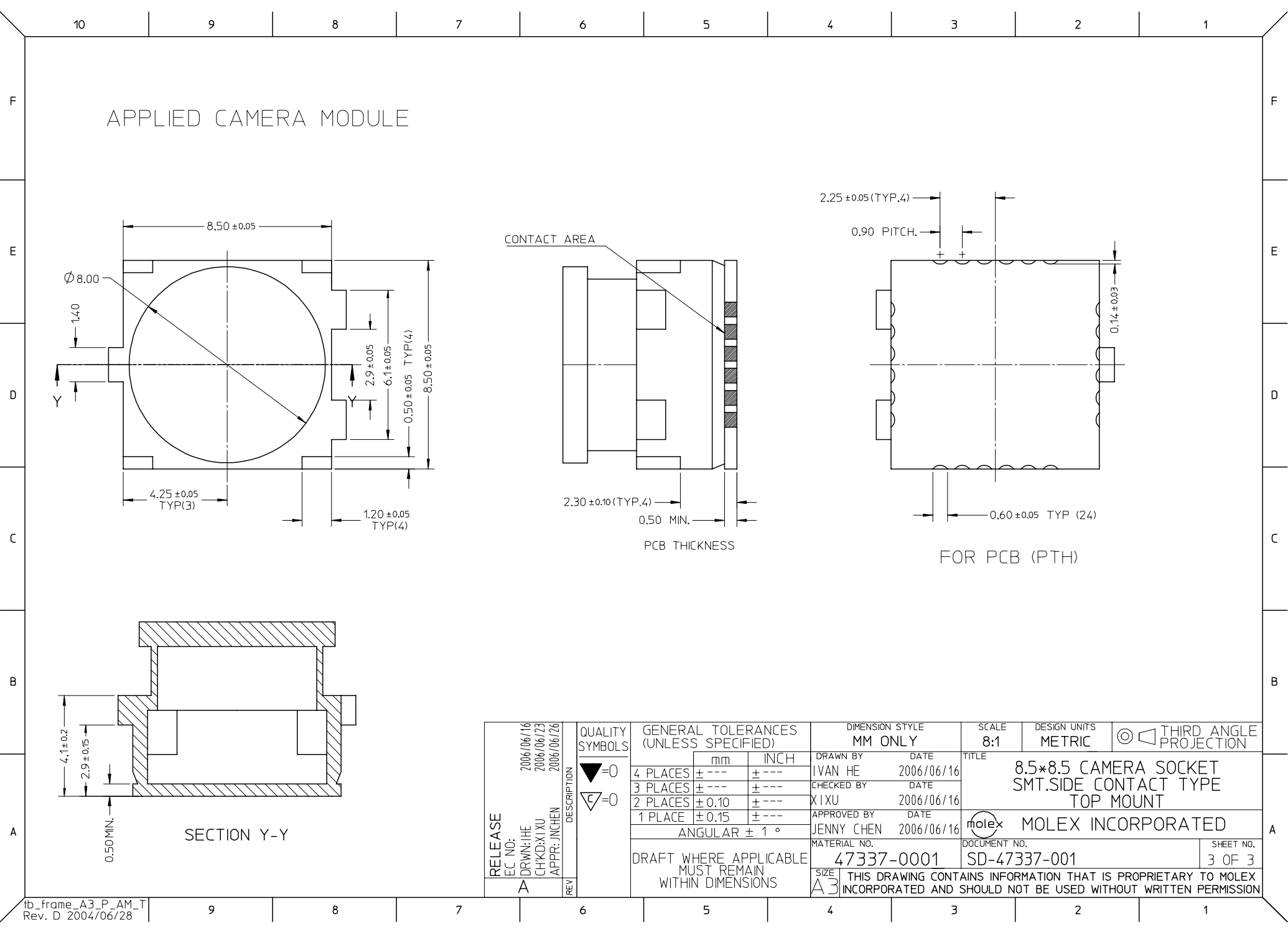
DIMENSION STYLE	
MM ONLY	INCH
DRAWN BY	IVAN HE
CHECKED BY	XIXU
APPROVED BY	JENNY CHEN
MATERIAL NO.	47337-0001

SCALE	
8:1	DATE
2006/06/16	2006/06/16

DESIGN UNITS	
METRIC	THIRD ANGLE PROJECTION
8.5*8.5 CAMERA SOCKET	
SMT.SIDE CONTACT TYPE	
TOP MOUNT	

MOLEX INCORPORATED	
DOCUMENT NO.	SHEET NO.
SD-47337-001	3 OF 3

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DRAFT WHERE APPLICABLE	
MUST REMAIN WITHIN DIMENSIONS	
SIZE	A3

DIMENSION STYLE	
MM ONLY	INCH
DRAWN BY	IVAN HE
CHECKED BY	XIXU
APPROVED BY	JENNY CHEN
MATERIAL NO.	47337-0001

SCALE	
8:1	DATE
2006/06/16	2006/06/16

DESIGN UNITS	
METRIC	THIRD ANGLE PROJECTION
8.5*8.5 CAMERA SOCKET	
SMT.SIDE CONTACT TYPE	
TOP MOUNT	

MOLEX INCORPORATED	
DOCUMENT NO.	SHEET NO.
SD-47337-001	3 OF 3

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